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# ALL-IN-WONDER™ PRO

## Installation and Setup

### User's Guide

Version 4.0

P/N 137-70047-40 Rev. D



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## CHAPTER 1

# Getting Started

Welcome to the convergence of your PC, TV and video! This new technology changes the way you view TV, graphics, and video on your PC.

The ALL-IN-WONDER PRO is a powerful TV, 2D, & 3D graphics and video accelerator. Its features will take your PC's graphics and video capabilities to the next level.

This guide provides all the information you need to install your ALL-IN-WONDER PRO.



### IN THIS CHAPTER...

- **Using this Guide** on page 6
- **What is ALL-IN-WONDER PRO?** on page 7
- **System Requirements** on page 9
- **Other Sources of Information** on page 10

## Using this Guide

The organization of this guide is as follows:



**Installing the Hardware and Software** on page 11 contains step-by-step instructions to help you place your card in your computer.



**Installing ATI's Enhanced Windows® 95 / Windows® 98 Software** on page 16 describes how to install display driver and ATI Video Player software.



**Using Your ALL-IN-WONDER PRO** on page 25 explains how you can take advantage of the advanced new features of the ALL-IN-WONDER PRO.



**For Windows® 98 Users...** on page 59 describes Windows® 98 features available with your ALL-IN-WONDER PRO.



**Tips and Tricks** on page 65 presents some exciting new ways to use your card—video email, stop-motion animation, and more.



**Reference** on page 67 provides troubleshooting tips and specifications about your card.

## What is ALL-IN-WONDER PRO?

The ALL-IN-WONDER PRO delivers high-performance 3D and 2D graphics. You can play games, watch TV or videos, listen to audio CDs, explore the Internet, and work in Windows® 95 or Windows® 98 as never before.

ALL-IN-WONDER PRO's advanced 3D acceleration gives you detailed color graphics and 3D features like bi-linear texturing, alpha blending, and fog effects.

ALL-IN-WONDER PRO also provides powerful 2D graphics features through the Display Properties pages:

<b>Settings</b>	Customize your desktop settings such as desktop size, screen resolution and color depth, and store various desktop preferences for easy recall later.
<b>Panning</b>	Set hotkeys to control panning of the desktop within a Virtual Desktop.
<b>Adjustment</b>	Adjust the position and size of your screen, as well as manipulate the screen refresh rate, frequencies and synchronization.
<b>Color Correction</b>	Correct color tone differences between real color values and the way your monitor displays them, and store various color correction preferences for easy recall later.

For comprehensive online information on the above features, just right-click on your desktop, click **Properties**, select the tab you want help for, then click the **Help** button.

ATI's 3D RAGE accelerator chips provide advanced 3D support and accelerated 2D graphics. Games and software applications that support the 3D RAGE — including Direct3D applications — run with fluid motion and in brilliant color.

	ALL-IN-WONDER PRO (PCI)	ALL-IN-WONDER PRO (AGP)
GRAPHICS ACCELERATOR CHIP	ATI RAGE PRO TURBO	ATI RAGE PRO TURBO
Gouraud shading	✓	✓
Perspective correction	✓	✓
Alpha blending	✓	✓
Mip mapping	✓	✓
Bilinear filtering	✓	✓
Z-buffering	✓	✓
3D triangle setup engine	✓	✓
dbx <sup>®</sup> TV audio	✓	✓
Accelerated Graphics Port (AGP)		✓

ALL-IN-WONDER PRO is a part of ATI's legendary family of graphics accelerators. Your existing 2D games and applications will snap to life with 64-bit acceleration and faster, more vibrant colors.



You can use ALL-IN-WONDER PRO to connect your computer to a television. This feature is ideal for playing games, giving presentations, watching movies, and browsing the Internet. (For more information, see [Using Your ALL-IN-WONDER PRO](#) on page 25.)



ALL-IN-WONDER PRO also turns your PC into an intelligent TV with the following features:

- Zoom-in
- Scheduled Viewing
- Channel Scanning
- Video capture
- Closed Captioning with “Hot Words” and “Look Back” features
- Program transcript recording
- TV magazine
- Instant Replay
- Digital VCR with real-time video compression
- dbx<sup>®</sup> stereo audio TV (**Note:** because Europe uses different stereo TV standards, ALL-IN-WONDER PRO TV audio is monaural-only in Europe.)

## System Requirements

Computer system	Pentium <sup>®</sup> /Pentium Pro <sup>®</sup> , Pentium II <sup>®</sup> , or compatible systems with PCI Local Bus or AGP bus
Expansion Slot	32-bit PCI Local Bus (AGP slot for AGP variants)
Operating System	Windows <sup>®</sup> 95 or Windows <sup>®</sup> 98 <i>Graphics features only are supported under Windows<sup>®</sup> 3.1x, Windows NT<sup>®</sup> (3.51, 4.0), and OS/2<sup>®</sup> (2.1, Warp)</i>
Monitor	VGA, supporting minimum 640x480 resolution. <i>A Plug-and-Play monitor that supports VESA’s Display Channel specifications (DDC1 or DDC2b) is required to take advantage of the DDC1/DDC2b features.</i>

## Other Sources of Information

If you need additional help or require information that is not included in this guide, see the following sources of information:



### Readme File

This file contains the latest information about your ALL-IN-WONDER PRO card.

#### To view the Readme file in DOS

- 1 Insert the *ATI Installation CD-ROM* into your CD-ROM drive.
- 2 In an MS-DOS window, type **D:** (or substitute your CD-ROM drive letter).
- 3 Type **README**.

### Online Help



If you require additional information, you can refer to the online help available under Windows® 95 or Windows® 98 for more information about using ATI's enhanced drivers.



For information on ALL-IN-WONDER PRO's graphics features, double-click the ATI icon in the lower-right corner of your screen.

## Using the online manual



Your ALL-IN-WONDER PRO comes with an online manual that describes the extensive features of your card.

#### To open the online manual

- 1 Insert the ATI INSTALLATION CD-ROM into your CD-ROM drive.  
*If Windows runs the ATI INSTALLATION CD-ROM automatically, proceed to step 5.*
- 2 In the Windows® 95 / 98 taskbar, click **Start**.
- 3 Click **Run...**
- 4 Type the following: **D:\ATISSETUP**  
(or substitute your CD-ROM drive letter.)
- 5 Click the Online Manual icon.

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CHAPTER 2

# Installing the Hardware and Software

Installing your card consists of three, easy steps.

- **Placing the card in your computer**
- **Installing ATI's enhanced display drivers**
- **Attaching input and output cables and optional TV, VCR, camcorder, etc.**

This chapter explains how to place your card in your computer, how to install the software, and how to connect the input and output cables.



## IN THIS CHAPTER...

- **Preparing Your Computer** on page 12
- **Installing the Hardware** on page 12
- **Installing Enhanced Drivers and the ATI VIDEO PLAYER for Windows® 95 / Windows® 98** on page 16
- **Input and Output Adapters** on page 19
- **Windows® 95 / Windows® 98 Volume Control** on page 22
- **Using VESA BIOS Extensions for DOS Gaming** on page 23



Turn off the power to your system, and discharge your body's static electric charge by touching a grounded surface — for example, the metal surface of the power supply — before performing any hardware procedure.

The manufacturer assumes no liability for any damage, caused directly or indirectly, by improper installation of any components by unauthorized service personnel. If you do not feel comfortable performing the installation, consult a qualified computer technician.

Damage to system components, the accelerator card, and injury to yourself may result if power is applied during installation.

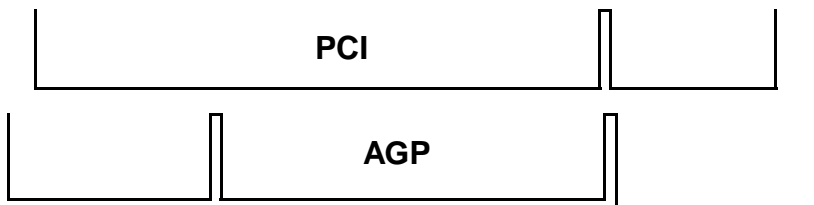
## Preparing Your Computer

If you are using an operating system other than Windows® 95 or Windows® 98, you may need to do the following before installing your card:

If your current system configuration uses special drivers that are not 640x480 VGA, you may encounter conflicts with the card. We recommend that you first reconfigure your operating system to use a **VGA** driver supplied with your operating system before installing the card. For more information about changing your operating system configuration, see your operating system documentation.

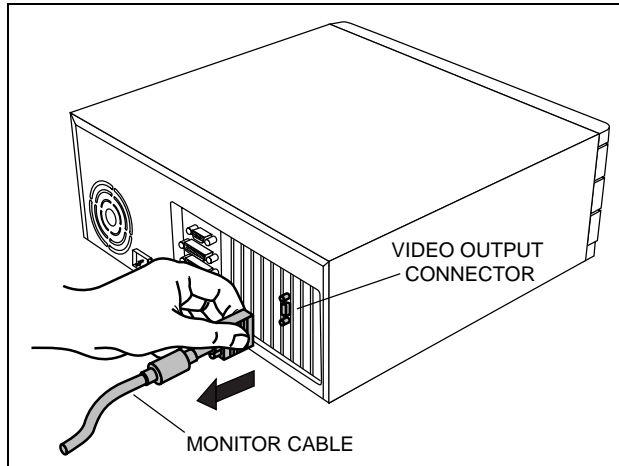
## Installing the Hardware

Now that you have prepared your computer, you are ready to install your card. If you are not sure whether your ALL-IN-WONDER PRO is PCI or AGP, compare the bottom edge of your card with the following illustration:



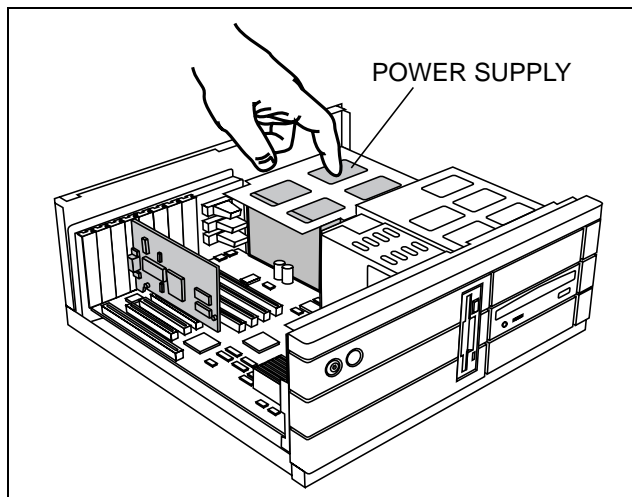
## To install your card

- 1** Power-off the computer and monitor, then **disconnect the monitor cable** from the back of your computer.



- 2** Remove the computer cover. If necessary, consult your computer system manual about removing the cover.

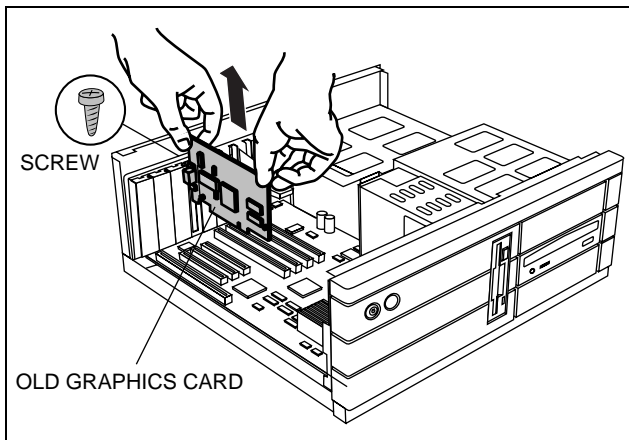
*Remember to discharge your body's static electricity by touching the metal surface of the computer chassis.*



- 3** If you intend to run multiple displays with Windows® 98 (see *Multiple Display Support in Windows® 98* on page 60), proceed to step 4. **Otherwise, remove any existing graphics card** from your computer.

*If the old graphics card sticks, rock it gently from end to end.*

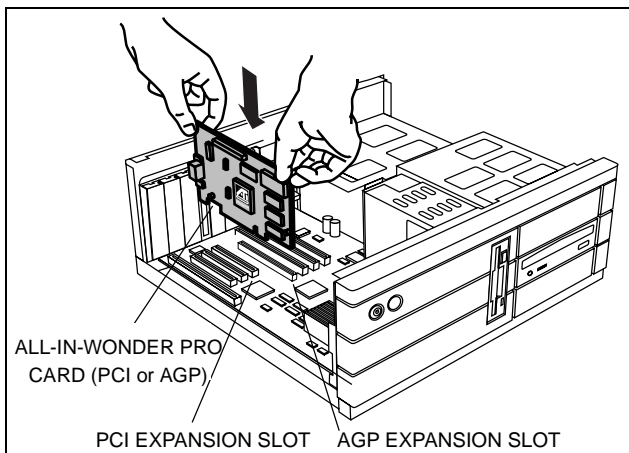
*Remember to save the screw.*



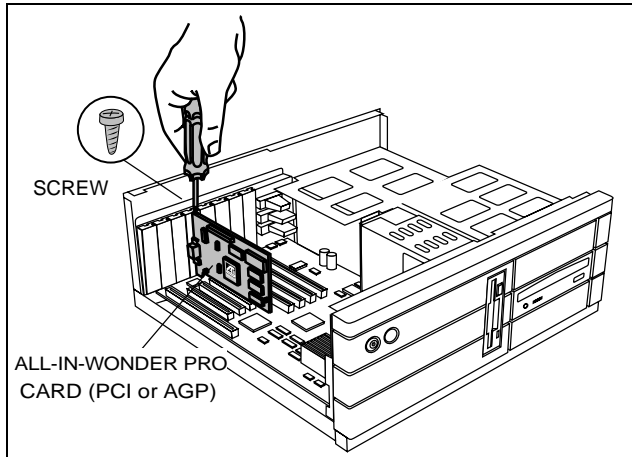
*Or, if your computer has any **on-board graphics capability**, you may need to **disable** it on the motherboard. For more information, see your computer documentation.*

- 4** If necessary, remove the metal cover from the empty expansion slot that you select (PCI cards use a PCI slot; AGP cards use an AGP slot), then **align your new card with an empty expansion slot, and press it in firmly until fully seated.**

*Grasp the new card by the top edge and carefully seat it firmly into the correct slot (PCI or AGP). Ensure that the metal contacts are completely pushed into the slot.*

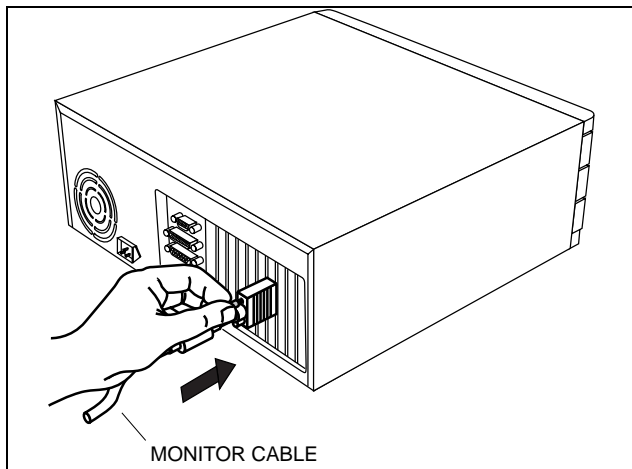


- 5** Replace the screw to fasten the card in place, and replace the computer cover.



- 6** Plug the monitor cable into your card (if you are running multiple displays under Windows® 98, connect their cables to the appropriate connectors), then **turn on the computer and monitor(s)**.

*Make sure your monitor cable is securely fastened.*



## Installing ATI's Enhanced Windows<sup>®</sup> 95 / Windows<sup>®</sup> 98 Software

**NOTE**

*Close all open applications before installing your ATI software.*

The ALL-IN-WONDER PRO is designed to function fully under Windows<sup>®</sup> 95 and Windows<sup>®</sup> 98. When running under other operating systems, it operates as a graphics cards only.

Your computer uses programs called **graphics drivers** to display information on the screen. ATI's enhanced drivers give you enhanced speed, resolution, color depth, graphic utilities, and 3D features.

In addition, the ATI VIDEO PLAYER program completes the functionality of ALL-IN-WONDER PRO.

## Installing Enhanced Drivers and the ATI VIDEO PLAYER for Windows<sup>®</sup> 95 / Windows<sup>®</sup> 98

You need to install ATI's enhanced driver for Windows<sup>®</sup> 95 or Windows<sup>®</sup> 98 to take advantage of your card's higher performance, resolutions, and special features.

**WINDOWS<sup>®</sup>  
95**

**If you are running Windows<sup>®</sup> 95**, when you first boot your computer with your ALL-IN-WONDER PRO card installed, your system may prompt you to launch a wizard to install the "Standard PCI Graphics Adapter (VGA)". Click **CANCEL**.

**WINDOWS<sup>®</sup>  
98**

**If you are running Windows<sup>®</sup> 98**, after you have installed your ALL-IN-WONDER PRO card and rebooted your computer, your system will prompt you to insert the Windows<sup>®</sup> 98 CD. **This is not necessary.**

- 1** Click **OK** to move to the next instruction.  
You will be prompted to locate the Windows<sup>®</sup> 98 CD.
- 2** Click **CANCEL**.  
You will now be notified that drivers have not been installed for your new hardware.
- 3** Click **OK**.

**Always use the driver provided on the ATI Installation CD-ROM, or an applicable driver update.**



**Note**

**Always use the latest version of the ATI Installation CD-ROM to install ATI display drivers and multimedia software.** The last three digits of the CD part number represent the version — a higher number indicates a later version. All ATI Installation CD-ROMs include a complete set of display drivers and multimedia software.

**Use the same ATI Installation CD-ROM to install the ATI enhanced display driver and the ATI VIDEO PLAYER.**



The 5.20 display drivers on your ATI Installation CD-ROM are the latest and fastest available, but at ATI, we are constantly improving our products, so check the ATI web site at <http://www.atitech.ca> under **Tech.Support/Driver Updates** for newer, faster software.

**To install the ATI RAGE family enhanced drivers and the ATI VIDEO PLAYER for Windows® 95 or Windows® 98**



**From CD:**

- 1** Insert ATI's Installation CD-ROM into your CD-ROM drive.  
*If Windows® 95 / Windows® 98 runs the ATI INSTALLATION CD-ROM automatically, proceed to step 6.*
- 2** In the Windows taskbar, click **Start**.
- 3** Click **Run...**
- 4** Type the following:  
**D:\ATISSETUP** (If **D** is not your CD-ROM drive, substitute the correct drive letter.)
- 5** Click **OK**.
- 6** Click **Easy Install** to begin the installation Wizard.
- 7** Follow the Wizard's on-screen instructions to complete the installation.



*For correct resolution and refresh rate operation, you need to select a **display device**. You may also want to change the **color palette** from 256 colors (the default) to a higher number of colors. For instructions, refer to ATI's on-line help file – simply double-click the ATI icon in the taskbar to access the on-line help.*



### Drivers downloaded from the ATI website:

- Double-click the self-extracting executable file to start the installation.

*Note that the ATI VIDEO PLAYER is downloaded **separately** from the display driver. Always use a **corresponding** ATI VIDEO PLAYER and display driver.*

#### **NOTE**

Windows will automatically reboot your system after the drivers are installed.



### To open the ATI VIDEO PLAYER for Windows<sup>®</sup> 95 or Windows<sup>®</sup> 98

- 1** In the Windows taskbar, click **Start**.
- 2** Point at **Programs** ►.
- 3** Point at **ATI Multimedia** ►.
- 4** Click **ATI PLAYER**.

*For information on the ATI VIDEO PLAYER, see the online help.*

## Input and Output Adapters

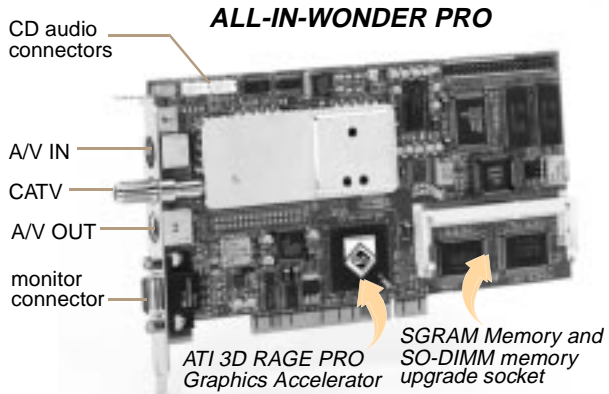
### NOTE

To hear audio from the television, you must make a connection between ALL-IN-WONDER PRO and your sound card: see [page 21](#).

Your ALL-IN-WONDER PRO card uses input and output adapters that let you connect audio and video devices to the card. You can use these adapters to:

- Connect a VCR, laserdisc player, or camcorder, and watch movies on your PC.
- Connect your camcorder and capture video for use in presentations, Web pages, or use third-party videoconferencing software.
- Connect your big-screen TV, and share the PC experience with a group of people, or play games on your big-screen TV.
- Attach a VCR to the video output and record presentations, games, internet, etc.

For information on the CD audio connectors, see [page 71](#)

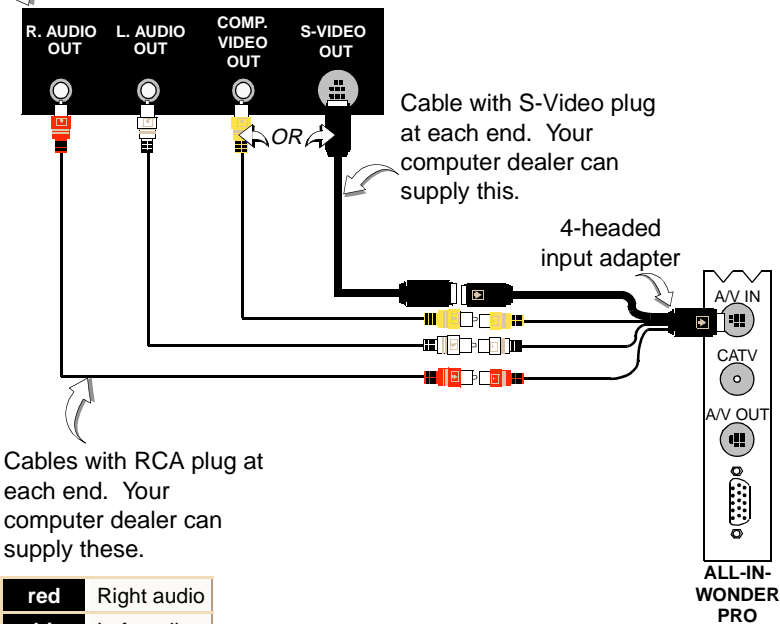


## To watch movies on your PC or capture video from your VCR, camcorder, or laserdisc player

Use the 4-headed input adapter to connect a VCR, camcorder, or laserdisc player to your ALL-IN-WONDER PRO, as shown.



The audio and video **output** connectors on your VCR, camcorder, or laserdisc player will be similar to these. Use COMPOSITE VIDEO OUT **or** S-VIDEO OUT. S-Video will provide better results.

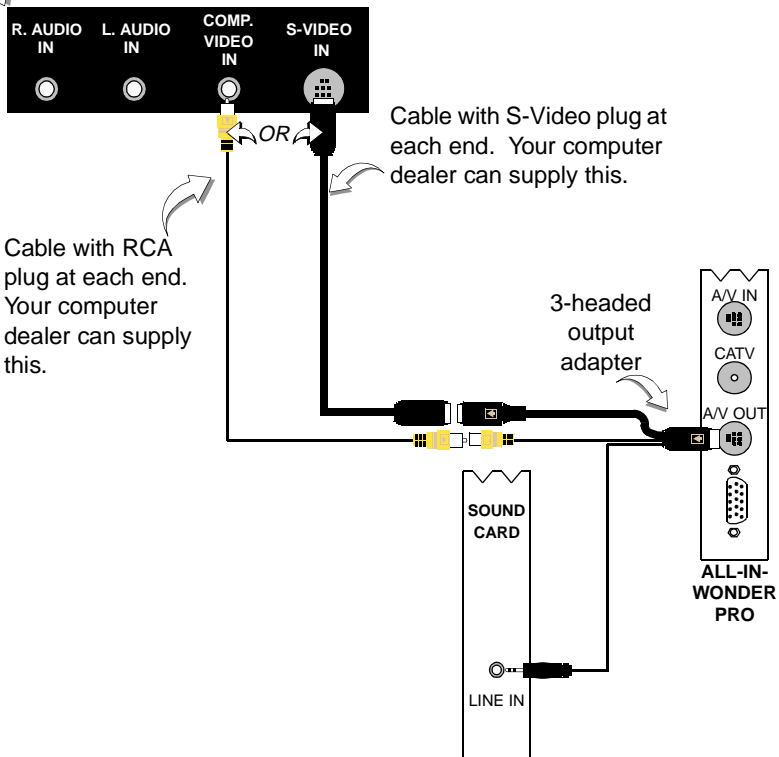


## To display your PC output on TV and record your PC output on videotape

Use the 3-headed adapter to connect a TV, camcorder, or VCR to your ALL-IN-WONDER PRO, as shown.




The audio and video **input** connectors on your TV, camcorder, or VCR will be similar to these. Use COMPOSITE VIDEO IN **or** S-VIDEO IN. S-Video will provide better results.



# Windows® 95 / Windows® 98 Volume Control

For correct audio performance, your sound card’s line input must be active. To display the Line Input setting in the Windows 95® / Windows® 98 Volume Control panel:


- 1    Right-click the speaker icon  in the Taskbar (usually in the lower-right corner of your screen).
- 2    Click **Open Volume Controls**.
- 3    If the Line-In volume slider is not visible, click **Options**, then click **Properties**.
- 4    Click the **Line-In** volume control checkbox, then click **OK**.
  - If the **Mute** checkbox is checked, click it to cancel muting.

If the speaker icon is not in your Taskbar, do the following:

- In the Windows taskbar, click **Start**, point to **Settings**, and click **Control Panel**.
- Double-click **Multimedia**.
- In the **Audio** tab, check **Show volume control on Taskbar**.

## To select the sound card connector for TV audio input

The sound card connector determines which mixer slider is controlled by the ATI VIDEO PLAYER’s volume slider.

- 1    Click the Setup button  in the TV Tuner control panel.
- 2    Click the **Video** tab.
- 3    Click the **Audio Input** list box.
- 4    Select a sound card connector from the drop-down list.

Line-In
MIDI
CD Audio
Line-In
Wave

## TV reception tips



- In the TV Tuner tab, ensure that you click the **correct setting for cable or antenna**.
- For the best indoor antenna reception, use an **amplified** model, and move it as **far away from your monitor** as possible.

## Using VESA BIOS Extensions for DOS Gaming

### NOTE

*If you do not play games that run under DOS, you can skip this.*

The VESA BIOS Extensions (VBE) feature supports software using modes compatible with VESA standards.

To ensure that VBE works correctly, you can load a DOS TSR (terminate-and-stay-resident) program called M64VBE. If your software and/or games conform to the VBE standard, you should load M64VBE first.

### To install the M64VBE.COM program

- 1** Restart your computer in MS-DOS mode.
- 2** Insert ATI's Installation CD-ROM into your CD-ROM drive.
- 3** Type **D:** (If **D** is not your CD-ROM drive, substitute the correct drive letter).
- 4** Type **CD UTILITY**.
- 5** Type **INSTALL**.
- 6** Select **Utilities Installation** from the Main Menu.
- 7** Press ENTER to select the default destination directory.
- 8** When prompted, let the INSTALL program make changes to your Autoexec.bat file.
- 9** Press ESC to exit the INSTALL program.
- 10** Restart your computer.

*You are now ready to load M64VBE.*

### To load M64VBE

In MS-DOS mode, at the command prompt, type **M64VBE**.

### To remove M64VBE from your system

- 1** Restart your computer in MS-DOS mode.
- 2** At the command prompt, type **M64VBE U**.

*For more information, see your DOS documentation for conditions on unloading TSRs.*



---

CHAPTER 3

# Using Your ALL-IN-WONDER PRO

This chapter explains how to use the special features that your ALL-IN-WONDER PRO has to offer. Because North American and European television use different broadcast standards, closed-captioning and related features are available only in North America; Teletext is available only in Europe, and ALL-IN-WONDER PRO TV audio is monaural-only in Europe.



## IN THIS CHAPTER...

- **Using ATI VIDEO PLAYER** on page 26
- **Playing Media Files** on page 32
- **Playing Audio CDs** on page 33
- **Teletext** on page 35
- **Intelligent TV Tuner** on page 36
- **Attaching Your TV to the ALL-IN-WONDER PRO Card** on page 49
- **Capturing Video and Audio** on page 51
- **ATI VIDEO PLAYER — Advanced Setup** on page 56

## Using ATI VIDEO PLAYER

### In Windows® 95 / Windows® 98

- 1 In the Windows taskbar, click **Start**.
- 2 Point at **Programs** ►.
- 3 Point at **ATI Multimedia** ►.
- 4 Click **ATI PLAYER**.

*For information about using the ATI VIDEO PLAYER controls, see the online help.*

## The Task control panel

The Task control panel indicates what mode the player is in and what it's doing. (Your Task control panel may not look exactly like the illustration—only installed or available features have controls.)





Context-sensitive help is always available when you press the F1 key. All control panels provide bubble help; just point your mouse at a control to see a pop-up description of its function.



*Instantly select the function you want – the Task control panel shows you what's happening.*

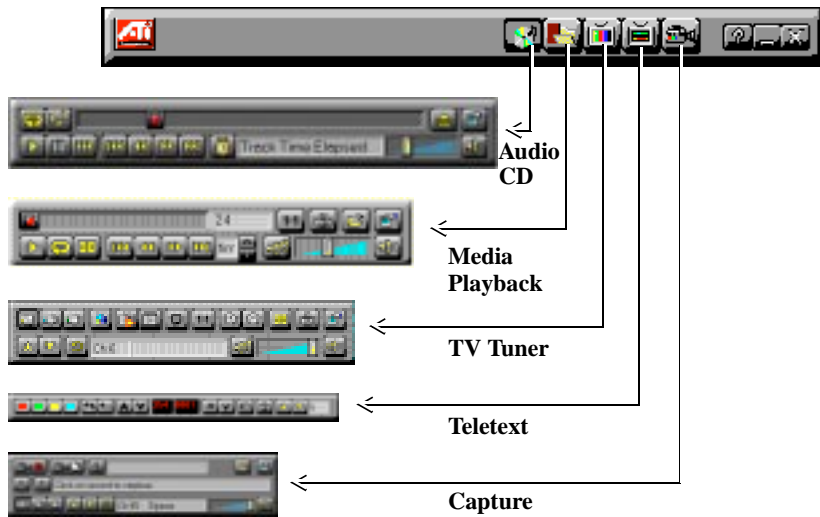
## Switching modes

Use the Task control panel buttons to switch between Audio CD, Media Playback, TV Tuner, Teletext, and Capture mode.

	<b>Audio CD</b>	Play standard audio CDs.	See <i>Playing Audio CDs</i> on page 33.
	<b>Media Playback</b>	Play MPEG and AVI video files.	See <i>Playing Media Files</i> on page 32.
	<b>TV</b>	Display live video sources, such as television programs.	See <i>Intelligent TV Tuner</i> on page 36.
	<b>Teletext</b>	Display and navigate European Teletext, including FasText.	See <i>Teletext</i> on page 35.
	<b>Capture</b>	Capture still images, video sequences, or audio-only.	See <i>Capturing Video and Audio</i> on page 51.

# ALL-IN-WONDER PRO — The Control Panels

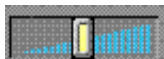
When you select a mode in the Task control panel or press a shortcut key, the Control panel changes to the appropriate control panel for that mode. All modes provide context-sensitive help; see *Online Help* on page 31.




You can also use the following shortcut keys to start playback, TV tuner, capture, CD audio, or Teletext.

	CD Audio	Press F4
	Media Playback	Press F5
	TV Tuner	Press F6
	Teletext	Press F7
	Capture	Press F8

## Controlling the audio volume



The TV Tuner, Audio CD Player, and Media Playback panels have a volume control slider. Use the mouse to move the slider to increase and decrease audio volume. You can specify which audio mixer slider to control: click the setup button , then click the **Video** tab. Click the **Audio Input** list box, and select the input from the drop-down list. For more information, see page 22.

## Muting the audio volume



The TV Tuner, Audio CD Player, and Media Playback panels have a Mute button that you can click to temporarily turn off the audio. Click the button again or move the volume control slider to cancel muting.

## The Display Panel

The Display panel is the “screen” where your media plays. It’s a familiar, TV-style display that you can resize, place on top of other windows, and position automatically in one of nine locations on the screen.




The F2 key hides/shows the control panel, to save desktop space.



*Move the Display panel, zoom it to full-screen, and minimize it as an icon.*

## Sizing the Display panel

You can resize the Display panel using the mouse, the Control panel buttons, or CTRL key combination:

	Increase size of Display Panel	CTRL + Up Arrow
	Decrease size of Display Panel	CTRL + Down Arrow
	Play full-screen	CTRL + F

In **TV mode**, when you play full-screen video, the Playback panel becomes “thin”. To show/hide the thin Playback panel, press F2.

You can also use the CTRL key to display these preset sizes:

160x120 pixels.	CTRL+1
240x180 pixels.	CTRL+2
320x240 pixels.	CTRL+3
640x480 pixels.	CTRL+4
Toggle between full screen and current size.	CTRL+F ALT+F

## Attaching and Detaching Panels

You can detach ALL-IN-WONDER PRO control panels from the Display panel, move them to any location on your screen, and re-attach them. Panels attached to the Display panel share the Display panel's **snap window to:** and **always on top** settings (For more information, see *Display* in [ATI VIDEO PLAYER — Advanced Setup](#) on page 56).

### To detach a panel

**While holding down the Shift key, click** the panel where the panel edges meet, then **drag** it away.

### To attach a panel

**Drag** it near the Display panel until its outline changes, then **release** the mouse button. The panels will snap back together.

## Online Help



**ATI Player Help.** Click the Help button at any time to open the online help.

**F1**

**Context-Sensitive Help.** Context-sensitive help is always available in each panel. Just press the F1 key.



**Bubble Help.** Simply move the mouse cursor over a control to see a description of its purpose. As you become familiar with ALL-IN-WONDER PRO, you may want to turn off help — click the **Show Bubble Help** checkbox in the **Display** configuration dialog (for more information, see *Display* in [ATI VIDEO PLAYER — Advanced Setup](#) on page 56).



**ATI Desktop Help.** For help on your ALL-IN-WONDER PRO's graphics features, double-click the ATI icon in the lower-right corner of your screen.

## Playing Media Files

Click the Media Playback button in the Task control panel.



*The Control panel changes to the Playback panel.*



To view / hide the Playback panel, press F2.



*Context-sensitive help is always available when you press the F1 key.*

*All controls provide bubble help; move the mouse cursor over a control to see a pop-up description of its function.*

You can use the Media Playback panel to play the following media files:

- MPEG-1 digital audio and video
- MPEG-1 Video CD 2.0 Interactive CDs
- Karaoke CDs
- .AVI video files

### To play a file

- 1 In the Playback panel, click the File Open button. 
- 2 Select a file from the list.
- 3 Click **Add**, then click **OK**.
- 4 Click the Play button. 

The file plays in the Display panel.

*For more information on using the Playback panel controls and features, see the online help.*



## Playing interactive discs (Video CD 2.0)

When playing Video CD 2.0 discs, the Control panel changes to this interactive panel.



*Context-sensitive help is always available when you press the F1 key.*

*All controls provide bubble help; move the mouse cursor over a control to see a pop-up description of its function.*

## Playing Audio CDs

Click the Audio CD button in the Task control panel.



*The Control panel changes to the Audio CD control panel.*





Use the Audio CD panel to play standard audio CDs. Advanced features such as Random play, Intro play (which plays the first ten seconds of each track) and Loop play are available.



*The Audio CD player has its own display window.*

### To play an audio CD

- 1** Insert the audio CD into your CD-ROM drive.
- 2** In the Audio CD panel, click the Setup Dialogs button. 
- 3** Click the **Disc Info** tab.
- 4** From the **Available Tracks** list, add or remove tracks as desired. The Play List displays your current selections.
- 5** Click **OK**.
- 6** In the Audio CD panel, click the Play button. 


The Audio CD player uses the Windows® 95 / Windows® 98 standard INI file to store disc names, track names, and the play list. You can use the Setup dialog to enter the name of the artist and the disc.

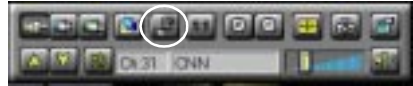
*For more information on using the Audio CD controls and features, see the online help.*

## Teletext

### European feature

ATI VIDEO PLAYER supports European Teletext, including FasText. Use the Teletext controls to move through major pages and sub-pages, and randomly select pages. Text is displayed in the Display panel.

If you are using a third-party Teletext application, the closed-caption button  in the TV Tuner control panel is replaced by a button that launches your Teletext application.



When you display closed-captioned text in a window, you can attach and detach the closed-captioned window.

Click the Teletext button in the Task control panel.



*The Control panel changes to the Teletext panel.*



*Context-sensitive help is always available when you press the F1 key.*

*All controls provide bubble help; move the mouse cursor over a control to see a pop-up description of its function.*

## MediaNet

TV-Online from MediaNet is an enhanced teletext program that can be launched directly from your ATI-TV. After installing the software, you can launch TV-Online by clicking the teletext icon in the TV Tuner panel.

## Intelligent TV Tuner

Now you can watch TV on your computer!

**NOTE**  
All channels may not be available in all countries.

ALL-IN-WONDER PRO lets you watch up to 125 cable television channels and 70 antenna channels in smooth, full-motion video on the whole screen or in a window.

Capture still frames and movie clips, channel surf, and create your own TV transcripts.



*Get real-time information when you want it. Move the TV window, zoom it to full-screen, and capture video.*

## Features

**NOTE**  
ALL-IN-WONDER PRO TV audio is monaural-only in Europe.

Take advantage of Windows 98's exciting, new features: see **Chapter 4, For Windows 98 Users...**

- Television-quality video in a window and full screen with dbx<sup>®</sup> stereo TV audio.
- **Composite Video and S-Video inputs** for VCR, video camera, laser-disc player, video game consoles, etc.
- **Capture Video and Audio** with a simple mouse click.
- **Live Motion Video Desktop**, using your favorite TV show as wallpaper.
- **Channel Scan** through all available stations in seconds.
- **Zoom-In** to any part of the screen.
- **Closed Captioning** support (NTSC only), including **Transcript Creation** and **Hot Words** that alert you when ALL-IN-WONDER PRO receives information you want to see.
- **Visual Channel Selection** — select channels by clicking on their “thumbnail” images.
- **Scheduled Viewing** — play particular files and/or watch selected TV channels at times you specify.
- **TV Magazine** — transcribe closed-captioned broadcasting and remove advertisements, including pictures and text.
- **Instant Replay** — ALL-IN-WONDER PRO can replay live video, with a 2 to 10 second delay, while you watch TV.
- **Channel Lockout** and **Program Lockout** for parental control.
- **Secondary Audio Program**.
- **Digital VCR** — Schedule and record TV shows to your hard drive.

## Using the TV Tuner

The TV Tuner displays cable or broadcast television and smooth, full-motion video on the whole screen or in a window. You can use the TV Tuner to:

- Watch television on your computer as you work in another software application.
- Watch a videotape or laser disk movie on your computer.
- Capture, save, and print TV and video images.
- Display and record closed-captioned text.
- Replace your desktop with live TV display.

ALL-IN-WONDER PRO accepts a wide range of video inputs: TV antenna or cable, VCR, Video camera, laser disk, and video games.

Click the TV Tuner button in the Task control panel.



The Control panel changes to the TV control panel (in this illustration, CATV is selected).



You can use the **Setup** button to adjust color, select the broadcast standard, add and delete channels, and set closed-caption options (see *Video, Tuner, and Closed Caption* in *ATI VIDEO PLAYER — Advanced Setup* on page 56.)

Or press TAB and use the cursor keys to adjust the picture on-screen, just like a TV.


*Context-sensitive help is always available when you press the F1 key.*

*All controls provide bubble help; move the mouse cursor over a control to see a pop-up description of its function.*

## Setting up the TV tuner


Perform these simple steps to set up the TV:

### Choose antenna or cable

- 1 Click the Setup button  in TV Tuner mode.
- 2 Click the **TV Tuner** tab.
- 3 From the list box, select the TV broadcast format (Antenna, Cable, HRC cable, or IRC cable).


### Set up the audio

*Select the sound card connector used for TV audio input:*

- 1 Click the Setup button  in TV Tuner mode.
- 2 Click the **Video** tab.
- 3 Click the **Audio Input** scroll box.
- 4 Select a sound card connector from the drop-down list.

Line-In
MIDI
CD Audio
Line-In
Wave

### Scan for available channels

- 1 Click the Setup button  in TV Tuner mode.
- 2 Click the **TV Tuner** tab
- 3 Click the **Auto Scan** button in the TV Tuner setup dialog.

The TV Tuner scans for all available channels and stores them when you click the **Set** button. When scanning is complete, you can type in a name for each channel.

## Validating TV channels

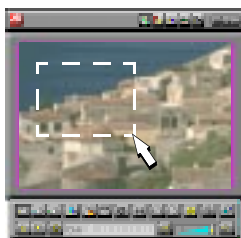
When you click the **Auto Scan** button in the Tuner setup dialog (see **Tuner** in *ATI VIDEO PLAYER — Advanced Setup* on page 56), the TV Tuner scans for all available channels and stores them. When scanning is complete, you can type in a name for each channel. Before scanning, use the drop-down list box to select the broadcast format and the cable standard.

If you want to change channel assignments, you can use the slider that appears at the top of the dialog. For example, you could assign the actual channel 5 to the ALL-IN-WONDER PRO's channel 2.

- Double-clicking the slider returns the current channel's assignment to normal; for example, selecting channel 2 tunes in channel 2.
- Clicking the **Auto Scan** button returns all the channel assignments to normal.


## Zooming and unzooming

Select and enlarge a portion of the display by dragging the mouse across the Display Panel



### To select and enlarge a portion of the display

- 1 Click within the display panel.
- 2 Hold down the mouse button and draw a rectangle around the area you want to zoom.

To return your display to normal, click the **Unzoom** button  in the Control panel.


## Hot Words

North  
American  
feature

Have your computer watch TV for you! When you turn on Closed Captioning, you can specify words and phrases that ALL-IN-WONDER PRO will detect in the closed-captioned text. You set Hot Words to begin transcribing the text or to maximize the TV Tuner when the Hot Words appear.

You specify words using the Hot Words configuration dialog. (see **Hot Words** in *ATI VIDEO PLAYER — Advanced Setup* on page 56).

### To select Hot Words

- 1 Click the Setup button  in TV Tuner mode.
- 2 Click the **Hot Words** tab.
- 3 Type in the Hot Words that you want.
- 4 Choose the type of match you want:
  - Always** Takes effect when the Hot Word occurs.
  - With** Takes effect when the Hot Word occurs, and is immediately followed by a Second Word.
  - Without** Takes effect when the Hot Word occurs, if it is not immediately followed by a Second Word.
  - Within** Takes effect when the Hot Word occurs, if it is within a definable number of words of a Second Word.
- 5 Type in a Second Word where required, then click **Add**.
- 6 To allow the ALL-IN-WONDER PRO to maximize from a minimized state, click the **Enable Hot Words** box.
- 7 To enable the Hot Word to trigger transcription, click the **Enable Transcribing on match** box.

### To enable/disable specific Hot Words

Select the Hot Word from the list and click the Enable/Disable button

- + appears before enabled Hot Words
- appears before disabled Hot Words

The Closed Caption button  in the TV Tuner panel must be enabled for Hot Words to function.




## Channel Lockout


Channel Lockout prevents anyone without the correct password from viewing selected TV channels. The first time you lock out a channel, a Channel lockout dialog prompts you for a four-character password.

### To lock out a channel

**NOTE**  
If you forget your password, you must uninstall and reinstall your ALL-IN-WONDER PRO software to view password-protected programs.

- 1 Click the Setup button  in TV Tuner mode.
- 2 Click the **TV Tuner** tab.
- 3 Select the channel you want to lock out, and click the box to the right of the channel name.
- 4 Type in a four-character password.
- 5 Retype the password.  
*The box to the right of the channel name turns into a padlock.*
- 6 Click **OK**.
  - The channel up and channel down buttons in the TV Tuner panel skip locked-out channels. The only way to select a locked-out channel is to enter the channel name or number, and type the password when prompted.
  - When a password is active, you will be prompted to enter it when you select the TV Tuner dialog. If you do not enter the password, the TV Tuner dialog will open, but all controls will be disabled; this prevents anyone from changing tuner settings if they do not have the correct password.

### To unlock a channel


- 1 Click the Setup button  in TV Tuner mode.
- 2 Click the **TV Tuner** tab.
- 3 Type in your four-character password.
- 4 Select the channel you want to unlock, and click the padlock to the right of the channel name.

## Program Lockout

When you use the TV Tuner, Program Lockout lets you block particular programs at specific times, and set a password to unlock them. Use the Program Lockout Dialog to specify programs, times, and duration.

### To lock out a program

**NOTE**  
*If you forget your password, you must uninstall and reinstall your ALL-IN-WONDER PRO software to view password-protected programs.*

- 1** Click the Setup button  in TV Tuner mode.
- 2** Click the **TV Tuner** tab.
- 3** Select the program you want to lock out, and click the box to the right of the channel name.
- 4** Type in a password.
- 5** Retype the password.
- 6** Click **OK**.

## Video Desktop

**To replace your desktop pattern with live TV display when you minimize the ATI Video Player**

- 1 Click the Setup button .
- 2 Click the **Video Desktop** checkbox in the **Display** configuration dialog (see *Display* in [ATI VIDEO PLAYER — Advanced Setup](#) on page 56).
- 3 Minimize the Player.

A Player icon appears in the Taskbar. Click the icon to display a small control panel that you can use to change channels and control the volume. Closed-captioned information is not displayed.

## Displaying closed-captioned text

*North  
American  
feature*

You can display closed-captioned text that is broadcast with NTSC television programming. ALL-IN-WONDER PRO also displays closed-captioned text in NTSC videotapes that contain closed-captioned material.

- In full-screen, the text overlays the video, as in standard TV.
- When you play video in a window, you can optionally display the text in a separate window.

### To display closed-captioned text

Click the Closed Caption button  in the TV Tuner panel.

### To display the text overlaid on the video

- 1 Click the Setup button .
- 2 Click the **Display over video** checkbox in the **Closed Caption** configuration dialog (see *Closed Caption* in [ATI VIDEO PLAYER — Advanced Setup](#) on page 56).

### To create a closed-captioned transcript


Click the **Create Transcript in File...** checkbox in the **Closed Caption** configuration dialog (see *Closed Caption* in [ATI VIDEO PLAYER — Advanced Setup](#) on page 56).

## **Visual Channel Selection**

You can browse through several TV channels simultaneously, and select channels by clicking on “thumbnail” images (miniature representations) of the channels. Each thumbnail displays the channel number, and is regularly updated to display the current program.

- If any channel in the selection list is a locked-out channel, a password is required to access it. If a password is not entered, only unlocked channels are displayed.
- After an autoscans, all detected channels are included in the selection list. A magnifying glass appears to the left of the lock-out icon. Click the magnifying glass button to add or remove the channel from the selection list.
- Most controls are disabled during Visual Channel Selection.

### **To use Visual Channel Selection**


- 1** Click the magnifying glass button  in the TV Tuner control panel.  
A grid of thumbnails appears over your TV display.
- 2** Click the thumbnail for the channel you want to preview.  
The channel you clicked becomes “live”, and plays video and audio for a few seconds.
- 3** To select a channel for viewing, double-click a thumbnail.  
The grid of thumbnails disappears, and the selected channel appears on your screen.

## Scheduled Viewing

Scheduled viewing lets you set up the ATI VIDEO PLAYER to play particular files and/or watch selected TV channels at times you specify.

When you install the ATI VIDEO PLAYER, the Scheduler program is added to your Windows Startup file, so that it runs every time Windows is started. A warning is displayed whenever you click OK after adding an item to the scheduled viewing list.


### To use Scheduled Viewing

- 1** Click the Setup button  in TV Tuner mode.
- 2** Click the **Schedule** tab.
- 3** Fill in the events and times you want to schedule.
  - Events whose date (On Month & Day) has passed are not automatically removed. To re-activate an event, set its Month & Day to today or later.
  - If the Player setup dialog is open, or if the About Help... box is being displayed, the Player cannot process events. If an event occurs, a warning notifies you that a particular event was not processed.
  - When the Player first runs, if there are any scheduled events recorded and the scheduler program is not running, a warning tells you that the scheduled events will not be processed.

## Digital VCR

**NOTE**  
Your existing capture settings will be used. See [Capturing Video and Audio](#) on Page 51.

You can use your ALL-IN-WONDER PRO to record a TV channel at a specified time, for a specified duration.


- 1** Click the Setup button  in TV Tuner mode.
- 2** Click the **Schedule** tab.
- 3** Click **Do: Record TV**, and select the channel you want to record.
- 4** Type the date and time for recording.
- 5** Type the file name and location.
- 6** Type the number of minutes to record.
- 7** Click OK and minimize or close the Player.  
The Player will pop up at the specified time.

## TV Magazine

*North  
American  
feature*

When you use the TV Tuner, TV Magazine lets you transcribe closed-captioned broadcasting, including pictures and text. Files are saved in RTF (Rich Text Format), which preserves formatting and can be used in many word processors.

### To use TV Magazine

- 1** Click the Setup button  in TV Tuner mode.
- 2** Click the **TV Magazine** tab.
- 3** Click **Enable TV Magazine** in the TV Magazine dialog.
- 4** Click the settings you want.

<b>Image Layout</b>	Lets you save transcripts in four text and picture layouts.
<b>Automatic case conversion</b>	Converts all characters to upper- or lower-case.
<b>Black &amp; White pictures</b>	Saves images as black & white only, to conserve disk space.
<b>Picture rate</b>	Specifies the number of lines of text between each picture.
<b>Remove advertisements</b>	<p>Automatically skips commercial advertising when you display or transcribe closed-captioned text. It works best with programs that use scrolling transcripts rather than “text bubbles” to record closed-captioned text; for example: Talk shows, News broadcasts, Sports, and Soap operas.</p> <p>(Depending upon the closed-captioning format, commercials may occasionally be recorded—a little experimentation will show you how to get the best results.)</p>

## Instant Replay


Instant Replay lets you replay live video, with a 2-to-10-second delay, while you watch TV. You can:

- Pause and restart capture
- Search, pause, and play the captured video
- Copy the current frame to the Windows Clipboard in RGB24 (24-bit color) format.


### NOTE

*If your display is set to 32bpp, Instant Replay may not work correctly.*

### To start Instant Replay

Click the Start Instant Replay button  in the TV Tuner control panel.

### To display the Instant Replay panel

Click the Show Instant Replay button  in the TV Tuner control panel.


The Instant Replay panel opens beside the Display panel, and plays the recorded video with the delay you specify.

Move the delay slider left to decrease delay time to a minimum of 2 seconds.

Move it right to increase delay time to a maximum of 10 seconds.



### To display or hide the Instant Replay panel

Click the Show Instant Replay button  in the the TV Tuner control panel.



## Secondary Audio Program (SAP)

### NOTES


*Not all television stations broadcast stereo or SAP.*

*ALL-IN-WONDER PRO TV audio is monaural-only in Europe.*

*SAP stereo is not available in Japan.*

The Secondary Audio Program can be used to broadcast, for example, language translations, reading services for the visually impaired, weather forecasts, or information about a show.

### To hear the Secondary Audio Program, or to switch from stereo to mono

Click the SAP button  in the TV Tuner control panel to hear the Secondary Audio Program.

Click the SAP button again to hear monaural TV from the left channel and the Secondary Audio Program from the right channel.

Click the SAP button a third time to hear monaural TV. Clicking the SAP button again returns to stereo audio (the default).

## Attaching Your TV to the ALL-IN-WONDER PRO Card

Using your ALL-IN-WONDER PRO card, you can connect a television set as your computer's display. You can use your ALL-IN-WONDER PRO card to do the following:

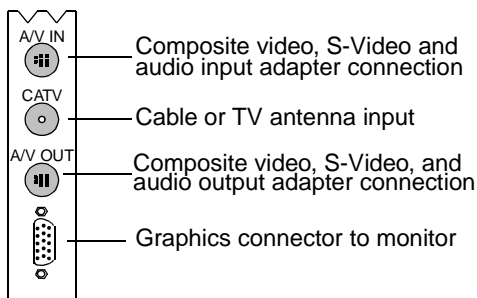
- View computer output directly on your television in either NTSC or PAL formats
- Connect using Composite or S-Video output capabilities
- Display images on both the TV and PC monitor simultaneously
- Provide a big-screen experience for entertainment PCs that is ideal for playing games, giving presentations, watching movies, and browsing the Internet

### To connect your graphics card to a television

- 1 Turn off your computer and your television.
- 2 Determine if your television has an S-Video connection or an RCA video-in connection.

- 3 Looking at the back of your computer, locate your graphics card (see diagram below).

### ALL-IN-WONDER PRO Connectors



- 4 Connect the supplied output cable adapter to the A/V OUT connector on the ALL-IN-WONDER PRO.
- 5 Using a cable with either S-Video or RCA connectors, attach one end of the cable to the output cable adapter and the other to your television.
- 6 Turn on your computer and your television.

*If there is no display, you may need to enable the television output capability.*

*For detailed cabling diagrams and audio connections, see [Input and Output Adapters](#) on page 19.*



### To enable the television display

#### NOTE

*You must attach a TV before enabling TV output.*

- 1 In the Windows taskbar, click **Start**.
- 2 Point to **Settings**.
- 3 Click **Control Panel**.
- 4 Double-click **Display**.
- 5 Click the **Settings** tab.
- 6 Check the **Television** checkbox to enable the television display.

*For more information about television display, click **Help**.*

## Capturing Video and Audio

**Still images.** You can capture full-color, 24-bit-per-pixel still images from MPEG movies, your camcorder, or television, save them on your computer's hard disk, and print them. The images are placed on the clipboard, or you can display them in their own window as "thumbnails" (miniature images).

ALL-IN-WONDER PRO saves still images as Windows-standard bitmaps (.bmp). It also supports most industry-standard graphics file formats, so you can insert the images into reports, presentations, letters, and other documents, to add impact to training applications and presentations.

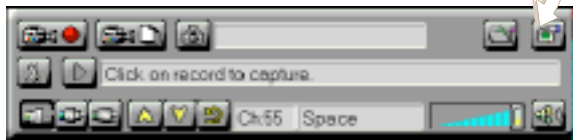
**Full-motion video.** You can use the "Digital VCR" to capture a stream of full-motion video plus audio from your video source and save it as an .AVI file on your computer's hard disk.

Click the Capture button in the Task control panel.



Use the VCR setup dialog to specify recording quality, recording time, and target drive for captured video. The status box displays the amount of time available for recording at the quality setting you specify.

*The Control panel changes to the Digital VCR.*



*Context-sensitive help is always available when you press the F1 key.*

*All controls provide bubble help; move the mouse cursor over a control to see a pop-up description of its function.*

## Capturing still frames

### To capture still frames

Click the camera button  to capture the current frame.

### To review captured images

Click the image's thumbnail.

- If the selected image has **not** been saved, the thumbnail has a red border. If it **has** been saved, the border is green.
- If an unselected image **has** been saved, its border is grey. If it has **not** been saved, there is no border.

You can use the buttons at the top of the still capture window to **save** the captured image, **delete** it, **print** it, or make it into a **desktop pattern**.

If you try to delete an unsaved still frame, the system prompts you to save it before deleting. If there are multiple unsaved frames, the Delete All button deletes them without displaying dialogs.

For information on setting up capture files, see *Still Capture* in [ATI VIDEO PLAYER — Advanced Setup](#) on page 56.

## Capturing video

You can capture video in two ways:

- As a **stream of video and audio** that you save as an .AVI file. You also have the option of capturing only audio.
- As a **sequence of still frames** that you save in an .AVI file.

### To capture a stream of video and audio

Click the Record Video button  in the Digital VCR. ALL-IN-WONDER PRO starts recording video and audio.

#### **NOTE**

Audio is not captured in this mode.

### To capture a sequence of frames

Click the Capture Sequence button  in the Digital VCR.

Each time you click the Capture Sequence button, ALL-IN-WONDER PRO records a frame.

The quality of the video that you capture depends on the following conditions:

- speed of your system (CPU)
- amount of system memory (RAM)
- performance of your hard disk
- size of the video capture window
- Video codec (encoder-decoder) used:

<b>YUV9</b>	Produces the best quality, but uses the most memory.
<b>ATI VCR 1.0</b>	Requires a Pentium 166 or faster, and dramatically reduces disk space required.
<b>ATI VCR 2.0</b>	Uses on-the-fly compression to achieve up to 9:1 compression over YUV16, and requires an MMX or Pentium II class machine.

For information on setting up capture files, see *VCR Setup* and *Advanced VCR setup* in [ATI VIDEO PLAYER — Advanced Setup](#) on page 56.

## Capturing audio and video from your VCR or camcorder to your ALL-IN-WONDER PRO

Your ALL-IN-WONDER PRO provides you with the ability to capture audio and video data from videotape to digital format on your PC. This allows you to use your computer as a digital studio to edit, enhance, and share your videos!

Follow the hardware installation instructions on page 20 of this guide to correctly attach the audio and video cables between your ALL-IN-WONDER PRO and VCR or Camcorder.

- 1** Turn your computer on.
- 2** In the Windows taskbar, click **Start**.
- 3** Point at **Programs** ►.
- 4** Point at **ATI Multimedia** ►.
- 5** Click **ATI PLAYER**.

- 6 Click the **capture** icon on the upper toolbar.
- 7 Click the icon of the input source you intend to capture from (cable, composite or S-Video)
- 8 Verify that the source material is displayed in the preview window.

In the **Setup** menu, under the **Video** tab you can adjust the color, tint, brightness, and contrast to the desired level.

The following settings can be made in the **Setup** menu, under the **VCR** tab.

- 9 Select the **recording quality** you would like to use (note that the higher the quality, the less video you will be able to store on a given disk).
- 10 If you want to override the standard capture settings and manually select the video format, frame rate, audio format, or pre-allocate disk space for capturing, click the **Advanced** setting.
- 11 Next, under **Record for \_\_\_\_ minutes**, enter the number of minutes you would like to record, *OR* select **Stop when SPACE is pressed** if you want to manually stop recording or record until your disk is full.
- 12 Select the drive you wish to record to under **Record to drive**.
- 13 Click **OK** to accept the changes, then click **OK** to exit the setup menu.
- 14 Click the **Capture Video** icon to set up for capturing video.
- 15 Cue your VCR or Camcorder to the location you would like to start recording from.
- 16 Click **OK** to start video capture. Please note that you cannot use your keyboard or mouse while capturing. Also note that a countdown timer on the Video Player toolbar indicates an estimate of the amount of disk space you have available for capturing.
- 17 Press **SPACE** or click the mouse button when you are finished capturing.
- 18 Select a file location and name to save your captured file to.

## Playing Captured Video and Audio

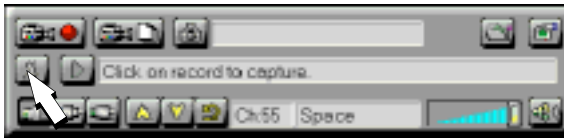
### To play captured video and audio

Click the Play button  in the Digital VCR.

ALL-IN-WONDER PRO plays your captured file.

## Editing Captured Video and Audio

The video editing feature lets you mark start and end points in a captured clip, and save only the portion that you select.



Click the Frame Edit button in the Digital VCR.




The Digital VCR changes to the Editing panel.

*Context-sensitive help is always available when you press the F1 key.*

*All controls provide bubble help; move the mouse cursor over a control to see a pop-up description of its function.*

# ATI VIDEO PLAYER — Advanced Setup

ALL-IN-WONDER PRO’s default settings should work well for most uses. You can also use the Setup dialogs to fine-tune the settings for your particular purposes.

When you click the Setup button  in the Task control panel, you can choose a dialog to set up the following (some dialogs only appear in certain modes):

<b>Display</b>	<p><b>Sets up the display’s general appearance and functions.</b></p> <ul style="list-style-type: none"><li>• Adjust panel size.</li><li>• Set panel snap-to grid location and always-on-top.</li><li>• Turn bubble help on/off.</li><li>• Turn ixed aspect ratio on/off.</li><li>• Assign a Hotkey to hide the player.</li><li>• Replace your desktop pattern with live TV.</li></ul>
<b>Still Capture</b>	<p><b>Controls how still frames are captured. Where applicable, you can specify where to store them.</b></p> <ul style="list-style-type: none"><li>• Capture still frames to the clipboard, to a numbered file (for example, image01.bmp, image02.bmp, etc.), or to a window.</li><li>• Specify printer options for the captured images.</li><li>• Specify scaling, image quality and size.</li></ul>
<b>Video</b>	<ul style="list-style-type: none"><li>• Adjust color, tint (NTSC video only), contrast, and brightness.</li><li>• Select input connector (TV, composite, or S-Video).</li><li>• Select broadcast standard: NTSC, PAL, SECAM (this feature is enabled only on selected boards).</li><li>• Display one field, both fields, or interlaced.</li></ul>
<b>TV Tuner</b>	<ul style="list-style-type: none"><li>• Autoscans for active channels and add them to a list.</li><li>• Add, delete, and name channels in the list.</li><li>• Select antenna or cable input and cable standard.</li><li>• Use slider to change channel assignments.</li><li>• Lock out selected channels.</li></ul>
<b>Closed Caption (NTSC video only)</b>	<ul style="list-style-type: none"><li>• Display closed captioned text over live video, in its own window, or not at all.</li><li>• Select solid or shaded background for text.</li><li>• Transcribe closed captioned text to a text file.</li></ul>



<b>Hot Words (NTSC video only)</b>	<ul style="list-style-type: none"> <li>• Enable/disable Hot Words in the Closed Captioning.</li> <li>• Add or change Hot Word selection.</li> <li>• Set Hot Words to start transcribing automatically.</li> </ul>
<b>VCR Setup</b>	<ul style="list-style-type: none"> <li>• Select recording quality.</li> <li>• Specify the number of minutes to record.</li> <li>• Stop when SPACE is pressed.</li> <li>• Specify the drive to save captured video</li> </ul> <p>Click the <b>Advanced</b> button to override the automatic setup, and access the full range of Video for Windows capture options.</p>
<b>Advanced VCR Setup</b>	<ul style="list-style-type: none"> <li>• Select frame rate.</li> <li>• Select audio and video format.</li> <li>• Capture to memory or disk.</li> <li>• Limit capture to pre-set amount of time.</li> <li>• Specify percentage of disk space to leave free.</li> <li>• Pre-allocate maximum file size.</li> </ul>
<b>MPEG</b>	<ul style="list-style-type: none"> <li>• Select scale in frames or time.</li> <li>• Update the slider position.</li> <li>• Play CD automatically if present.</li> </ul>
<b>Audio CD</b>	<ul style="list-style-type: none"> <li>• Display the disc tracks and the current Play List.</li> <li>• Add or remove tracks in the Play List.</li> <li>• Enter the artist's name and disc title.</li> </ul>
<b>Program Lockout</b>	<ul style="list-style-type: none"> <li>• Set passwords for Program Lockout, Access Program Lockout page, Access Locked Program, Access Channel Organizer, Tuner panel Double Lockout, and Channel Double Lockout.</li> </ul>
<b>TV Magazine</b>	<ul style="list-style-type: none"> <li>• Specify image layout.</li> <li>• Convert characters to upper- or lower-case.</li> <li>• Save images as black &amp; white.</li> <li>• Specify the number of lines of captioning per picture.</li> <li>• Remove advertisements.</li> </ul>

**Scheduled  
Viewing**

- List scheduled events.
- Specify schedule times.
- Select file playback, watch TV, or play CD.
- Display in full screen.
- Transcribe closed-captioned text.
- Disable scheduled events.
- Close the Player.
- Enter a new event.
- Remove selected events or all events from the schedule.

If you need additional information about these Setup dialogs, click the Help button. If you experience any difficulty setting up or running ALL-IN-WONDER PRO, please refer to *[Troubleshooting Tips](#)* on page 69.

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## CHAPTER 4

# For Windows® 98 Users...

Windows® 98 offers many exciting new features for users with an ALL-IN-WONDER PRO. The fastest way for you to access these features is to set up your ALL-IN-WONDER PRO with Windows® 95, following the installation procedures in Chapter 2 of this Guide, and then upgrade to Windows® 98. Reformatting your hard drive is not necessary.



### IN THIS CHAPTER...

- **Multiple Display Support in Windows® 98** on page 60
- **WebTV® for Windows** on page 61
- **Interactive Television** on page 62
- **WaveTop™** on page 62
- **NetMeeting™ 2.1** on page 63

## Multiple Display Support in Windows® 98

**NOTE**

*You can use multiple monitors and a single TV at the same time.*

Windows® 98 provides support for using more than one display device at a time—you simply install a separate PCI or AGP card for each additional monitor you intend to use. With multiple displays, you can expand your desktop, run different programs on separate displays, even play some newer games with multiple views. Each display can have a different resolution and color depth!

Windows® 98 automatically designates one graphics card as the **primary** graphics card. Each additional graphics card is designated as a **secondary** card. Certain 3D and multimedia features are only available on the **primary** graphics card. If you are installing more than one graphics card, you need to consider the following:

- If you install both a **PCI and an AGP** graphics card in the same system, the **AGP** graphics card will become the **secondary** graphics card.
- If you install **two or more PCI** graphics cards in the same system, the primary graphics card is typically the one installed in the PCI slot with the *lowest* number—this is typically the PCI slot farthest from the computer's ISA slots. Consult your computer system manual for help in selecting a slot.

The latest information on installing ATI's cards and enhanced drivers for Windows® 98 is provided in the Readme file on the ATI Installation CD-ROM.

**NOTE**

Some motherboards will allow an **AGP** card to act as the **primary** graphics card. A motherboard flash BIOS (for example, ASUS, Intel) may be required to enable this feature. Check your motherboard manufacturer's website for information.

## WebTV® for Windows



ALL-IN-WONDER PRO's advanced TV Tuner capabilities are a perfect match for Windows® 98's new WebTV interface. Use your Internet connection to instantly download television program information for current and future shows.

### NOTE

*You must use the Windows 98 or ATI 5.20 or later display drivers with WebTV.*


If you do not have an Internet connection, you can download the same program information over a cable connection! WebTV puts you in control of your TV scheduling, and allows you to navigate interactive programming — never miss your favorite show!

To enjoy WebTV on your ALL-IN-WONDER PRO-equipped PC, you must use the Windows® 98 ALL-IN-WONDER PRO display drivers or 5.20 display drivers. If you do not have access to the 5.20 or later ATI display drivers, follow the instructions in [To install Windows® 98 CD Drivers for ALL-IN-WONDER PRO](#) on page 73).

### To install WebTV on your Windows® 98 system

### NOTE

*WebTV and the ATI Video Player cannot be used at the same time; you must close one before running the other.*

- 1** In the Windows taskbar, click **Start**.
- 2** Point at **Settings** , and click **Control Panel**.
- 3** Double-click the **Add/Remove Programs** icon.
- 4** Click the **Windows Setup** tab.
- 5** Double-click the **Web TV for Windows** item.  
Ensure that both WaveTop Data Broadcasting and WebTV for Windows are checked.
- 6** Click **OK**, and allow Windows® 98 to install the new components.

You will want to use the **ATI Video Player** for advanced features such as [Instant Replay](#) on page 48 and [Capturing Video and Audio](#) on page 51, and **WebTV** to access interactive program guides and interactive web content.

## Interactive Television



Microsoft's inclusion of Intel's InterCast® software in Windows® 98's WebTV interface marks the convergence of television and the Internet. InterCast and your ALL-IN-WONDER PRO will enhance your TV viewing experience by adding dynamic Web links to regular content. While watching your favorite program, you will be directed to related text, still pictures, audio, and video available on the Internet.

The interactive TV component can only be installed after WebTV is properly installed on your system:

- From the Windows® 98 CD, run **D:\drivers\webtv\intercast\iit22020.exe**.
- When the InterCast installation is complete, restart your computer.

To access Interactive TV, click the 'i' symbol that appears when WebTV is tuned to a channel that is transmitting interactive TV content.

## WaveTop™



Windows® 98 answers the call of users without an Internet connection and those frustrated by slow and expensive connections. WaveTop delivers "Best of the Web" content to your computer by encoding digital data with standard television signals through your cable or antenna connection to your ALL-IN-WONDER PRO.

**NOTE**  
You must use the Windows 98 or ATI 5.20 or later display drivers with WaveTop.

Currently, WaveTop broadcasts news, magazine articles, sports scores, stock quotes, and software through PBS's extensive North American broadcast system. WaveTop inquires into your areas of interest and your ALL-IN-WONDER PRO accumulates up-to-date information that you can access through a Windows® Explorer interface. Now you can get all the information you want without paying Internet connection fees!

To install WaveTop, follow the WebTV installation instructions on page 61. The WebTV Setup Wizard is launched when you reboot your computer. Allow WaveTop to search through your available channels for a local PBS broadcaster, and follow the wizard to select your areas of interest.

**Windows® 95 users can download WaveTop from [www.wavetop.net](http://www.wavetop.net).**



## NetMeeting™ 2.1

Windows® 98's NetMeeting 2.1 provides a single interface for multipoint data conferencing and collaboration on virtually any Windows-based application, in addition to high quality videoconferencing over a LAN or the Internet. All you need is a digital camera that supports composite or S-Video out. Plug it into your ALL-IN-WONDER PRO's video input port, and you'll be ready to use your computer as an Internet video-phone!

### To set up Microsoft NetMeeting on your computer

#### NOTE

*You must use the Windows 98 or ATI 5.20 or later display drivers with Net-Meeting.*

- 1** In the Windows taskbar, click **Start**.
- 2** Point at **Programs** , then point at **Internet Explorer** , and click **Microsoft NetMeeting**.

The NetMeeting install wizard will guide you through several simple steps, and ask you which capture driver you would like to use. Select the driver labeled **Vfw MM 16-bit WDM capture driver**.





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## CHAPTER 5

# Tips and Tricks

This chapter suggests some exciting new ways to use your ALL-IN-WONDER PRO. You will need to attach a video camera to your ALL-IN-WONDER PRO, following the instructions on page 20. Many camcorders and digital cameras have composite or S-Video outputs that will provide a real-time image on your television.



### IN THIS CHAPTER...

- **Video Email** on page 66
- **Stop-Motion Animation** on page 66
- **Security Camera** on page 66

# Video Email

See  
*Capturing  
Video and  
Audio on  
page 51.*

Use your ALL-IN-WONDER PRO to capture a video clip, which you then attach to an email message for your family and friends.

Because video files can be very large, you should use a small capture size – 240x160 or smaller – and the ALL-IN-WONDER PRO’s video compression features to reduce the file size (see page 53 for information on compressing video files).

- **Indeo 3.2** or **4.1** are popular compression codecs (encoder-decoders) that can dramatically reduce the file size while maintaining good quality. Any Windows 95 / Windows 98 system will play Indeo 3.2.
- If you use the **ATI VCR 1.0** or **2.0** codec to compress your video on-the-fly, you must ensure that the receiving computer can play these files back.

# Stop-Motion Animation

See  
*Capturing  
video on  
page 52.*

Using the **capture a sequence of frames** feature, you can take a series of still shots and save them as an .AVI movie. You can use this feature to easily produce a “claymation” or other work-in-progress type of movie.

# Security Camera

See  
*Capturing  
video on  
page 52  
and ATI  
VIDEO  
PLAYER -  
Advanced  
Setup on  
page 56.*

Your ALL-IN-WONDER PRO provides an ideal way to capture video for an extremely long period of time—no more worries about your security camera running out of tape! Simply set your ALL-IN-WONDER PRO to a lower video capture frame rate, and capture many high quality still images automatically, for days at a time.

## suggested settings

<b>codec</b>	ATI VCR 2.0
<b>Size</b>	320x240
<b>Frame rate</b>	1 frame per second

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## CHAPTER 6

# Reference

This chapter contains troubleshooting tips and specifications for your ALL-IN-WONDER PRO.



### IN THIS CHAPTER...

- **Running Diagnostics** on page 68
- **Troubleshooting Tips** on page 69
- **ATI Multimedia Channel (AMC)** on page 74
- **ALL-IN-WONDER PRO Video Mode Table** on page 76
- **Compliance Information** on page 78

## Running Diagnostics

**NOTE**

*You cannot run the diagnostics program inside a Windows MS-DOS box.*

You can run diagnostics to test the hardware on your card. All installed graphics modes can be viewed and tested.

### To copy and run the diagnostics program in MS-DOS

- 1** Start your computer in MS-DOS mode.
- 2** Insert the *ATI Installation CD-ROM* into the CD-ROM drive.
- 3** At the MS-DOS prompt, type the following:  
**XCOPY D:\UTILITY\M64DIAG.EXE c:\mach64\ /Y**  
(If **D** is not your CD-ROM drive, substitute the correct drive letter.)  
*If you have not installed the ATI VIDEO PLAYER, you will need to use the DOS Make Directory command (MD) to create the **mach64** directory.*  
*This copies the M64DIAG.EXE program to your hard disk.*
- 4** Type **CD C:\MACH64**.
- 5** Type **M64DIAG**.
- 6** Press **Enter** to run the program.
- 7** Select **Diagnostics**.
- 8** Type the number of times you would like to run the tests.

## Troubleshooting Tips

The following troubleshooting tips may help you if you experience problems. Contact your dealer for more advanced troubleshooting information.

### Basic troubleshooting tips

- Check that the **card is seated properly** in its expansion slot. If the problem still exists, try a different PCI expansion slot.
- Ensure that the **monitor cable is securely fastened** to the card.
- Make sure that the **monitor and computer are plugged in and receiving power**.
- For Windows® 95 / Windows® 98, **disable any built-in graphics capabilities** on your mother board. For more information, see your computer documentation.
- Make sure that you selected the **appropriate monitor** when you installed your enhanced driver.
- If you use an indoor antenna, you will get the best results with an **amplified** model. Place it as **far away from the PC monitor** as possible, to avoid interference.
- Make sure that your **audio card's line input is active** (see *Windows® 95 / Windows® 98 Volume Control* on page 22).

## Windows® 95 / Windows® 98 troubleshooting tips

For Windows® 95 / Windows® 98 troubleshooting tips, right-click the ATI icon in the taskbar, and select **Troubleshooting**.

If you have problems during start-up, start your computer in Safe Mode.

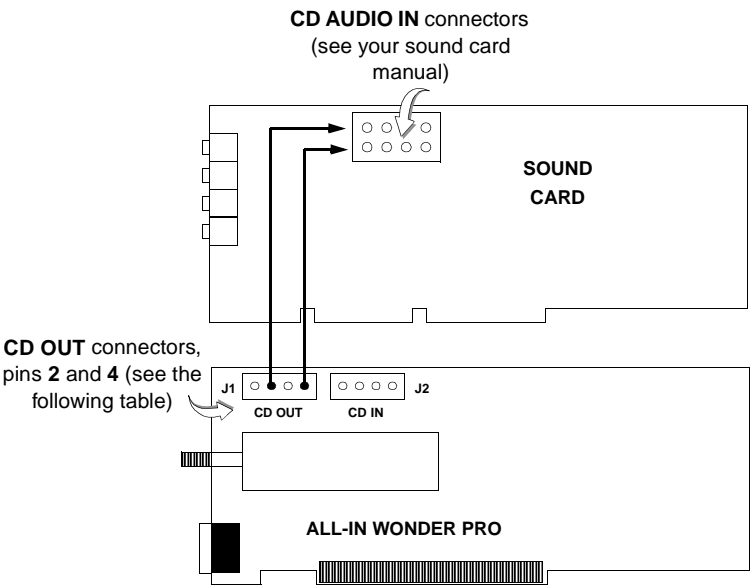
### To load Windows® 95 / Windows® 98 in Safe Mode

- 1** Turn on your computer.
- 2** In Windows® 95, press the **F8** key when Starting Windows 95 appears on the screen.  
In Windows® 98, press and hold the **CTRL** key until the Windows 98 Startup Menu appears, then **select the number for Safe Mode**, and press **Enter**.
- 3** Select **Safe Mode**.
  - Disable any programs that launch automatically when you start Windows® 95 / Windows® 98.
  - Check that you have the correct monitor and display driver selected in the Display Properties. For more information, click Help in the Start menu.
  - Check for the existence of memory managers and ensure they are configured properly.
  - Refer to additional information in the Windows® 95 / Windows® 98 README file located in the root directory on the ATI Installation CD-ROM.

**If you don't hear audio**, make sure that your audio card's line input is active (see [Windows® 95 / Windows® 98 Volume Control](#) on page 22).

# CD Audio Connectors

The following illustration shows the CD audio connectors on your ALL-IN-WONDER PRO card.



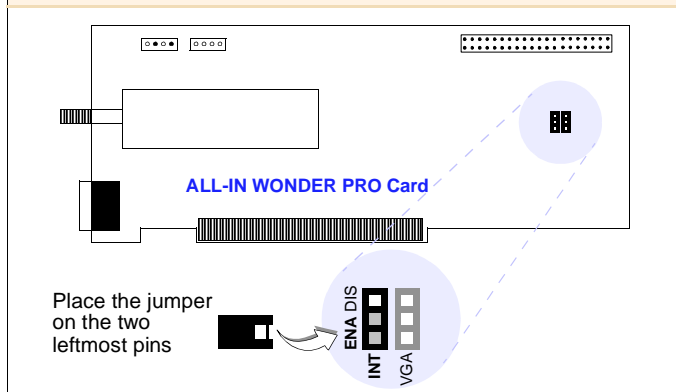
*This table lists the pin assignments for the CD audio connectors on your ALL-IN-WONDER PRO card.*

ALL-IN-WONDER PRO	SIGNAL	PIN
J2	CD IN	Pin 1 - GND
J2	CD IN	Pin 2 - LEFT IN
J2	CD IN	Pin 3 - GND
J2	CD IN	Pin 4 - RIGHT IN
J1	CD OUT	Pin 1 - GND
J1	CD OUT	Pin 2 - LEFT OUT
J1	CD OUT	Pin 3 - GND
J1	CD OUT	Pin 4 - RIGHT OUT

## Video Capture

If you have trouble capturing video, check the JU1 jumper on your ALL-IN-WONDER PRO card, to make sure that it is in the **ENA** position.

To use the **video capture** features of ALL-IN-WONDER PRO, ensure that the JU1 jumper (labeled INT) is set to the **ENA** position on your card.




## To Remove the ATI VIDEO PLAYER

- 1 In the Windows taskbar, click **Start**.
- 2 Point to **Settings**.
- 3 Click **Control Panel**.
- 4 Double-click **Add/Remove Programs**.
- 5 Select **ATI VIDEO PLAYER** from the list.
- 6 Click **Add/Remove...**
- 7 Click **OK**.



## To install Windows® 98 CD Drivers for ALL-IN-WONDER PRO

*Please  
note that  
these  
drivers will  
not operate  
with the  
ATI VIDEO  
PLAYER.*

- 1** In the Windows taskbar, click **Start**.
- 2** Point at **Settings** , and click **Control Panel**.
- 3** Double-click the **System** icon.
- 4** Click the **Device Manager** tab.
- 5** Double-click **Display Adapters**.
- 6** Click your ATI card (it should be labeled ATI 3D RAGE PRO).
- 7** Click **Properties**.
- 8** Click the **Driver** tab.
- 9** Click the **Update driver...** box.
- 10** Click **Next** (to search for a new driver)
- 11** Click **Display a list of all drivers in a specific location**, then click **Next**.
- 12** Click **ALL-IN-WONDER PRO (atir3)**, then click **Next**.
- 13** The driver should be listed as **c:\windows\dxati.inf**. Click **Next**.
- 14** Click **Finish**, and allow Windows to re-boot your system.

**NOTE** Windows will automatically reboot your system after the drivers are installed.

## ATI Multimedia Channel (AMC)

While the AMC provides VGA Feature Connector (VFC) compatibility, it also provides enhanced features for new multimedia devices including serial control and provision for audio.



For more information on ATI's AMC products, visit our website at **[www.atitech.ca](http://www.atitech.ca)**.



The AMC connector shares the same footprint with the VFC but it adds pins for supporting additional multimedia modes. Great caution should be taken when connecting a ribbon cable to the AMC/VFC connector. Some of the pins carry power and any improper use can result in damage both to the graphics card and the upgrade board.

## Japanese Users ...

Please note that Secondary Audio Program (SAP) stereo support is not available in Japan.

## Specifications

System Requirements — Pentium/Pentium Pro, or compatible systems with PCI Local Bus.

<b>Operating Environment</b>	Windows® 95 or Windows® 98 <i>Only graphics features are supported under DOS 5.0 or higher, Windows 3.1x, Windows NT, OS/2 2.1 or OS/2 Warp.</i>
<b>Video Display Buffer</b>	8MB non-upgradable, synchronous RAM.
<b>Sync Signals</b>	Separate horizontal and vertical sync at TTL levels.
<b>Video BIOS</b>	PCI 2.1 compliant.
<b>Video Output Connector</b>	15-pin D shell (Female), IBM standard.
<b>AMC Connector</b>	2x20 pin header. Shares the same footprint with the 2x13 pin VGA Feature Connector, VGA Out only, VESA standard.
<b>Video Interrupt</b> <i>(Reserved for future use)</i>	PCI — system auto-configurable, jumper-settable (default is OFF).
<b>Power</b>	+5V $\pm 5\%$ , @ 1.3A typical.
<b>Ambient Temperature</b>	<ul style="list-style-type: none"> <li>• Operating — 50° to 122° F (10° to 50° C).</li> <li>• Storage — 32° to 162° F (0° to 70° C).</li> </ul>
<b>Relative Humidity</b>	<ul style="list-style-type: none"> <li>• Operating — 5% to 90% non-condensing.</li> <li>• Storage — 0% to 95%</li> </ul>
<b>MTBF</b>	120,000 hours.

## ALL-IN-WONDER PRO Video Mode Table

ALL-IN-WONDER PRO Video Modes								
Display Screen Resolution	Refresh Rate (Hz)	Hor. Scan (kHz)	Pixel Clock (MHz)	Colors (Bits Per Pixel) 8 MB				
				8	16	24	*32	
640x480	60	31.5	25.1	•	•	•	•	
640x480	72	37.4	32.0	•	•	•	•	
640x480	75	37.5	31.5	•	•	•	•	
640x480	85	43.3	36.0	•	•	•	•	
640x480	90	48.0	39.9	•	•	•	•	
640x480	100	52.9	44.9	•	•	•	•	
640x480	120	63.7	55.0	•	•	•	•	
640x480	160	84.1	70.0	•	•	•	•	
640x480	200	100.2	81.0	•	•	•	•	
800x600	48	33.8	36.0	•	•	•	•	
800x600	56	35.2	36.0	•	•	•	•	
800x600	60	37.8	39.9	•	•	•	•	
800x600	70	44.5	44.9	•	•	•	•	
800x600	72	48.0	50.0	•	•	•	•	
800x600	75	46.9	49.5	•	•	•	•	
800x600	85	53.7	56.2	•	•	•	•	
800x600	90	57.1	56.6	•	•	•	•	
800x600	100	62.5	67.5	•	•	•	•	
800x600	120	76.0	81.0	•	•	•	•	
800x600	160	99.6	106.0	•	•	•	•	
800x600	200	125.9	135.0	•	•	•	•	
1024x768	43	35.5	44.9	•	•	•	•	
1024x768	60	48.4	65.0	•	•	•	•	
1024x768	70	56.5	75.0	•	•	•	•	
1024x768	72	58.2	75.0	•	•	•	•	
1024x768	75	60.0	78.8	•	•	•	•	
1024x768	85	68.7	94.5	•	•	•	•	
1024x768	90	76.2	100.0	•	•	•	•	
1024x768	100	79.0	110.0	•	•	•	•	
1024x768	120	96.7	130.0	•	•	•	•	
1024x768	140	113.3	157.5	•	•	•	•	

ALL-IN-WONDER PRO Video Modes							
Display Screen Resolution	Refresh Rate (Hz)	Hor. Scan (kHz)	Pixel Clock (MHz)	Colors (Bits Per Pixel)			
				8	16	24	*32
1024x768	150	120.6	160.0	•	•	•	
1152x864	43	45.9	65.0	•	•	•	•
1152x864	47	44.9	65.0	•	•	•	•
1152x864	60	54.9	80.0	•	•	•	•
1152x864	70	66.1	100.0	•	•	•	•
1152x864	75	75.1	110.0	•	•	•	•
1152x864	80	76.4	110.0	•	•	•	•
1152x864	85	77.1	121.5	•	•	•	•
1152x864	100	90.2	135.0	•	•	•	•
1152x864	120	108.7	172.0	•	•	•	
1280x1024	43	50.0	80.0	•	•	•	•
1280x1024	47	50.0	80.0	•	•	•	•
1280x1024	60	64.0	110.0	•	•	•	•
1280x1024	70	74.6	126.0	•	•	•	•
1280x1024	74	77.9	135.0	•	•	•	•
1280x1024	75	80.0	135.0	•	•	•	•
1280x1024	85	91.2	157.5	•	•	•	•
1280x1024	90	96.2	160.0	•	•	•	•
1280x1024	100	106.4	172.0	•	•	•	
1600x1200	52	68.0	135.0	•	•	•	•
1600x1200	58	75.0	135.0	•	•	•	•
1600x1200	60	76.2	156.0	•	•	•	•
1600x1200	72	89.7	194.4	•	•	•	
1600x1200	75	93.8	202.0	•	•	•	
1600x1200	85	106.2	229.5	•	•		
				*32 - 24bpp color data is processed using a 32bpp data format.			

## Compliance Information

### FCC Compliance Information

ALL-IN-WONDER PRO complies with FCC Rules Part 15. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.
- The use of shielded cables for connection of the monitor to the graphics card is required to ensure compliance with FCC regulations.
  - Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### Industry Canada Compliance Statement

ICES-003 This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe B Respecte toutes les exigences du Règlement sur le matériel brouiller du Canada.

## CE Compliance Information

EMC Directive 89/336/EEC and Amendment 92/31/EEC, Class B Digital Device

EN 50081-1, Generic Emissions Standard for Residential, Commercial and Light Industrial Products

(EN 55022/CISPR 22, Limits and Methods of Measurement of Radio Interference Characteristics Information Technology Equipment)

*Warning: This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.*

EN 50082-1, Generic Immunity Standard for Residential, Commercial and Light Industrial Products

(IEC 801-2, IEC 801-3, IEC 801-4)

Directive EMC 89/336/CEE et amendement 92/31/CEE, dispositif numérique de Classe B

EN 50081-1, Norme sur les émissions génériques pour les produits domestiques, commerciaux et industriels légers

(EN 55022/CISPR 22, Limites et méthodes de mesure des caractéristiques d'interférences radiophoniques, Matériel des technologies de l'information) *Mise en garde: ceci est un produit de Classe B. Il risque produire des interférences radiophoniques dans un environnement domestique auquel cas l'utilisateur peut se voir demandé de prendre des mesures adéquates.*

EN 50082-1, Norme sur l'immunité générique pour produits domestiques, commerciaux et industriels légers.

(CEI 801-2, CEI 801-3, CEI 801-4)

EMC Richtlinie 89/336/EEC und Änderung 92/31/EEC, Digitales Gerät der Klasse B

EN 50081-1, Allgemeiner Emissions-Standard für Haushalt- und kommerzielle Produkte sowie Erzeugnisse der Leichtindustrie

(EN 55022/CISPR 22, Beschränkungen und Verfahren der Messung von informationstechnischen Ausrüstungen mit Funkstörmerkmalen)

*Warnung: Dies ist ein Erzeugnis der Klasse B. Dieses Erzeugnis kann Funkstörungen im Wohnbereich verursachen; in diesem Fall können entsprechende Maßnahmen seitens des Benutzers erforderlich sein.*

EN 50082-1. Allgemeiner Unempfindlichkeits-Standard für Haushalt- und kommerzielle Produkte sowie Erzeugnisse der Leichtindustrie

(IEC 801-2, IEC 801-3, IEC 801-4)





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